

(FILE 'HOME' ENTERED AT 15:50:55 ON 19 JAN 2006)

FILE 'AGRICOLA, BIOSIS, CAPLUS, EMBASE' ENTERED AT 15:51:06 ON 19 JAN 2006

L1 3111 S PLANT AND PATHOGEN AND TRANSCRIPTION
L2 151 S L1 AND (WRKY OR BZIP)
L3 26 S L2 AND ZINC
L4 13 DUP REM L3 (13 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 15:59:06 ON 19 JAN 2006

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L4 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:487762 CAPLUS
 DN 137:60475
 TI **WRKY** genes for **transcription** factor related proteins
 and their use in improving **plant** disease resistance
 IN Lippok, Bernadette; Sommsich, Imre
 PA Max-Planck-Gesellschaft Zur Foerderung Der Wissenschaften E.V., Germany
 SO PCT Int. Appl., 79 pp.
 CODEN: PIXXD2
 DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002050293	A2	20020627	WO 2001-DE4877	20011221
	WO 2002050293	A3	20021219		
	W: AU, CA, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10063986	A1	20020627	DE 2000-10063986	20001221
	AU 2002031574	A5	20020701	AU 2002-31574	20011221
PRAI	DE 2000-10063986	A	20001221		
	WO 2001-DE4877	W	20011221		

L4 ANSWER 8 OF 13 AGRICOLA Compiled and distributed by the National
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 (2006) on STN DUPLICATE 5

AN 2003:30020 AGRICOLA
 DN IND23324280
 TI Potentiation of developmentally regulated **plant** defense response
 by AtWRKY18, a **pathogen**-induced Arabidopsis
transcription factor.
 AU Chen, C.; Chen, Z.
 AV DNAL (450 P692)
 SO Plant physiology, June 2002. Vol. 129, No. 2. p. 706-716
 CODEN: PLPHAY; ISSN: 0032-0889
 NTE Includes references
 CY Maryland; United States
 DT Article; Conference
 FS Other US
 LA English

L4 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2000:702805 CAPLUS
 DN 134:142574
 TI A potato gene encoding a **WRKY**-like **transcription**
 factor is induced in interactions with Erwinia carotovora subsp.
 atroseptica and Phytophthora infestans and is coregulated with class I
 endochitinase expression
 AU Dellagi, Alia; Heilbronn, Jacqueline; Avrova, Anna O.; Montesano, Marcos;
 Palva, E. Tapio; Stewart, Helen E.; Toth, Ian K.; Cooke, David E. L.;
 Lyon, Gary D.; Birch, Paul R. J.
 CS Unit of Mycology, Bacteriology and Nematology, Scottish Crop Research
 Institute, Dundee, DD2 5DA, UK
 SO Molecular Plant-Microbe Interactions (2000), 13(10), 1092-1101
 CODEN: MPMIEL; ISSN: 0894-0282
 PB APS Press
 DT Journal
 LA English

RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 13 AGRICOLA Compiled and distributed by the National
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 (2006) on STN

AN 2001:854 AGRICOLA
 DN IND22071625
 TI Isolation and characterization of two **pathogen-** and salicylic acid-induced genes encoding **WRKY** DNA-binding proteins from tobacco.
 AU Chen, C.; Chen, Z.
 SO Plant molecular biology, Jan 2000. Vol. 42, No. 2. p. 387-396
 Publisher: Dordrecht : Kluwer Academic Publishers.
 CODEN: PMBIDB; ISSN: 0167-4412
 NTE Includes references
 CY Netherlands
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L4 ANSWER 12 OF 13 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
 AN 1999:490345 BIOSIS
 DN PREV199900490345
 TI Early nuclear events in **plant** defence signalling: Rapid gene activation by **WRKY transcription** factors.
 AU Eulgem, Thomas; Rushton, Paul J.; Schmelzer, Elmon; Hahlbrock, Klaus; Somssich, Imre E. [Reprint author]
 CS Abteilung Biochemie, Max Planck-Institut fuer Zuechtungsforschung, Carl-von-Linne Weg 10, D-50829, Koeln, Germany
 SO EMBO (European Molecular Biology Organization) Journal, (Sept. 1, 1999) Vol. 18, No. 17, pp. 4689-4699. print.
 CODEN: EMJODG. ISSN: 0261-4189.
 DT Article
 LA English
 ED Entered STN: 16 Nov 1999
 Last Updated on STN: 16 Nov 1999

L4 ANSWER 13 OF 13 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
 AN 1998:386729 BIOSIS
 DN PREV199800386729
 TI **Zinc-finger transcription** factors in **plants**.
 AU Takatsuji, H. [Reprint author]
 CS Lab. Dev. Biology, National Inst. Agrobiological Resources, 2-1-2 Kannondai, Tsukuba, Ibaraki 305, Japan
 SO CMLS Cellular and Molecular Life Sciences, (June, 1998) Vol. 54, No. 6, pp. 582-596. print.
 ISSN: 1420-682X.
 DT Article
 General Review; (Literature Review)
 LA English
 ED Entered STN: 10 Sep 1998
 Last Updated on STN: 10 Sep 1998

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L4 ANSWER 13 OF 13 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN

TI **Zinc-finger transcription factors in plants.**

AB Several classes of **zinc-finger** motifs are present in **transcription** factors and function as parts of DNA-binding and protein-protein interaction domains. Most of the known classes of **zinc-finger** motifs earlier identified in other eucaryotes have also been found in a number of (putative) **transcription** factors in **plants**. In addition, some novel classes of **zinc** fingers have been identified in **plants**. Many of these proteins have been implicated in the regulation of important biological processes that are unique to **plants**, such as flower development, light-regulated morphogenesis and **pathogen** responses. Thus, **plants** seem to have adopted pre- existing prototype **zinc** -finger motifs as well as generated new **zinc-finger** domains to adapt them to various regulatory processes. Detailed analyses of TFIIIA-type **plant zinc-finger** proteins revealed unique manners of interactions with target DNA sequences, i.e. recognition of spacing, suggesting that **plants** have developed unique mechanisms even when prototype functional motifs were adopted. In this review, attempts were made to summarize the current knowledge of (putative) **zinc-finger transcription** factors according to a structure-based classification, in view of their involvement in specific regulatory processes and interaction with target DNA. . .

IT Major Concepts

Biochemistry and Molecular Biophysics; Molecular Genetics (Biochemistry and Molecular Biophysics)

IT Chemicals & Biochemicals

protein-protein interaction domain; **zinc-finger transcription** factor: TFIIIA type; DNA binding with one finger protein; DNA: binding; EPF protein; GATA1-like protein; LIM protein; PHD-finger protein; RING-finger protein; SUPERMAN protein; **WRKY** protein

ORGN Classifier

Plantae 11000

Super Taxa

Plantae

Organism Name

plant

Taxa Notes

Plants

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L2	47	wrky and pathogen	US- PGPUB; USPAT; EPO; JPO; DERWENT	2006/01/19 14:29	
2	BRS	L3	47	12 and plant	US- PGPUB; USPAT; EPO; JPO; DERWENT	2006/01/19 14:31	
3	BRS	L4	19139	transcription adj factor	US- PGPUB; USPAT; EPO; JPO; DERWENT	2006/01/19 14:31	
4	BRS	L5	8851	14 and plant	US- PGPUB; USPAT; EPO; JPO; DERWENT	2006/01/19 14:32	
5	BRS	L6	145	15 and pathogen.clm.	US- PGPUB; USPAT; EPO; JPO; DERWENT	2006/01/19 14:32	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
6	BRS	L7	90	16 and plant.clm.	US- PGPUB; USPAT; EPO; JPO; DERWENT	2006/01/19 14:32	